



# MILTECH™ 928

Compact, Portable Military Managed Gigabit Ethernet Switch

## PRODUCT DESCRIPTION

Driven by rapid advancement and lower costs, Ethernet is becoming the standard for IP-based components in a wide range of military and commercial applications, including:

- UAVs
- Land autonomous vehicles (UGVs)
- Robots
- Mobile equipment fielded in harsh environments

Modern platforms contain dozens of network devices that must be interconnected. The MILTECH 928 is an ideal solution for mobile Ethernet-equipped platforms. With the best combination of size, weight, power and cost (SWaP-C) in the industry, it saves valuable real estate for computers, sensors, targeting systems, and other devices that make mobile platforms highly effective.

The MILTECH 928 is a MIL-STD, fully managed military grade network switch offering 8 triple-speed (10/100/1000Mbps) ports using RJFTV connectors. It can be remotely managed

to optimize communications and prioritize critical information traffic. Advanced network features, never before found in a package of this size, include switching protocols, virtual LANS (VLANS), traffic prioritization (QoS), and bandwidth aggregation are standard.

The MILTECH 928's gigabit speeds and 24VDC power make it instantly compatible with network device and power systems.

The MILTECH 928 is widely used in battlefield communications C4ISR, video, sensor data acquisition, and transmission. Its mechanical packaging enhancements, including ruggedized RJFTV connectors, is designed for MIL-STD-810F airborne and ground environmental compliance and high reliability. Leveraging best-in-class switching technology from Techaya, the MILTECH 928 serves as a robust commercial off-the-shelf (COTS) solution for rugged LAN connectivity.

## FEATURES

<b>ETHERNET PORTS:</b>	<ul style="list-style-type: none"> <li>• Managed 8 x switched 10/100 /1000 ports</li> </ul>
<b>NETWORKING:</b>	<ul style="list-style-type: none"> <li>• Spanning Tree (802.1d), RSTP (802.1w) and multiple Spanning Tree (802.1S) for fast recovery rings</li> <li>• Security via Radius Authentication 802.1x, Port Security, Port Mirroring</li> <li>• Multicasting (IGMP Snooping), GARP, GMRP, and GVRP Broadcasting and flooding Control up to 8K Groups</li> <li>• 802.1q Tagged based VLAN up to 4K VLAN groups.</li> <li>• QoS Multi-Layer Classifier, 802.1p, ToS/DSCP traffic classification. WFQ, Strict Queuing</li> <li>• Bridge support for Q-in-Q</li> <li>• Link Aggregation 802.3AD</li> <li>• WEB, CLI, Telnet Management</li> </ul>
<b>CONNECTORS:</b>	<ul style="list-style-type: none"> <li>• Power connector : Type MIL-D-38999/24WA98PA</li> <li>• LAN connectors : MIL-grade RJ45 - RJFTV series</li> <li>• RS232 connector – SCE2-B-76A06-075N-001</li> <li>• Led indication: link / activity per port</li> </ul>
<b>CHASSIS:</b>	<ul style="list-style-type: none"> <li>• Machined rugged aluminum</li> <li>• Conductively cooled w/custom internal heat-sinks</li> <li>• Ingress protection against sand, dust and moisture</li> <li>• Anodize Coating, MIL-A-8625, Type II, Class 2</li> </ul>
<b>STANDARDS:</b>	<ul style="list-style-type: none"> <li>• MIL-STD-1275B   MIL-STD-704A   MIL-STD-461A   MIL-STD-810F GM   IP67</li> </ul>



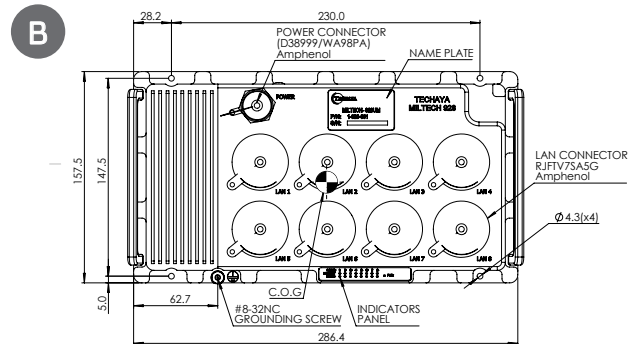
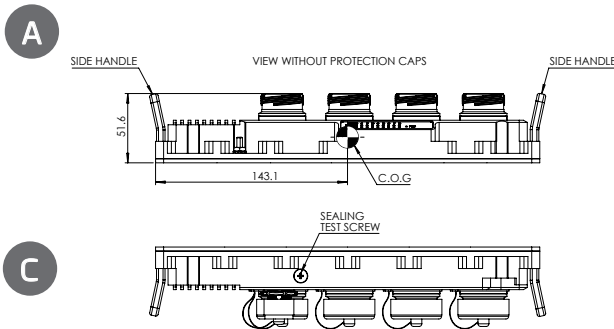


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## SPECIFICATIONS

<b>PERFORMANCE:</b>	<ul style="list-style-type: none"> <li>• 26.8 Mpps wire speed forwarding rate</li> <li>• 20Gbps maximum forwarding bandwidth</li> <li>• 8K MAC Address</li> </ul>
<b>STANDARDS COMPLIANCE:</b>	<ul style="list-style-type: none"> <li>• IEEE 802.1x MAC based Authentication</li> <li>• IEEE 802.1Q Vlan Tagging</li> <li>• IEEE 802.1P QoS</li> <li>• IEEE 802.1S Multiple STP</li> <li>• IEEE 802.1W Rapid STP</li> <li>• IEEE 802.1AD Link Aggregation</li> <li>• IEEE 802.1X</li> </ul>
<b>POWER:</b>	<ul style="list-style-type: none"> <li>• MIL-STD-1275B Surge and Spike protection</li> <li>• Voltage Input: 24Vdc Nominal (18-32V)</li> <li>• Power Consumption: 7W Typical</li> <li>• Chassis grounding</li> </ul>
<b>ELECTROMAGNETIC:</b>	<ul style="list-style-type: none"> <li>• MIL-STD-461A Electromagnetic compatibility</li> <li>• RE-02, RS-03</li> </ul>
<b>SHOCK/VIBRATION/HUMIDITY:</b>	<ul style="list-style-type: none"> <li>• MIL-STD-810F; 501.4I   501.4II   502.4I   502.4II   507.4   500.4II   514   516I   516VI   514.5   512.4</li> </ul>
<b>PHYSICAL:</b>	<ul style="list-style-type: none"> <li>• Dimensions: 287mm(L) x 147mm(W) x 50mm(H), including connectors Weight: 1.1kg</li> <li>• Dimensions: 11.3 "(L) x5.78"(W) x 1.96"(H)</li> </ul>
<b>INSTALLATION:</b>	<ul style="list-style-type: none"> <li>• 4 x 4.3mm mounting holes</li> </ul>
<b>COOLING:</b>	<ul style="list-style-type: none"> <li>• No Moving Parts. Passive Cooling.</li> </ul>
<b>OPERATING TEMP:</b>	<ul style="list-style-type: none"> <li>• -45°C to +85°C (-49°F to +185°F) Cold Start-Up</li> </ul>
<b>STORAGE TEMP:</b>	<ul style="list-style-type: none"> <li>• -45°C to +85°C (-49°F to +185°F)</li> </ul>



\*All measurements are in millimeters

## ORDERING INFORMATION

PART NUMBER	DESCRIPTION
1-928-000	• Manage Military Grade Gigabit Switch, 8 x 10/100/1000TX
2-CBL610PW3M	• Power Harness for MILTECH928
2-CBL928LAN	• LAN Harness for MILTECH928
2-CBL928MNG	• Management harness for MILTECH928